

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A cathode ray tube comprising:

a panel having an outer surface which is substantially flat and an inner surface which has a radius of curvature; and

a shadow mask having a plurality of apertures through which electron beams pass, ~~wherein each of the plurality of apertures at a central portion of the shadow mask having a continuously arcuate periphery,~~ a ratio Sh/Sv of a horizontal dimension Sh of the aperture to a vertical dimension Sv of the aperture ~~satisfies~~ satisfying a condition of $Sh/Sv < 1$ at a the central portion of the shadow mask.

2. (Original) The cathode ray tube of claim 1, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv < 1$ at an end portion of a short axis of the shadow mask.

3. (Original) The cathode ray tube of claim 2, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv \geq 1$ at an end portion of a diagonal axis of the shadow mask.

4. (Original) The cathode ray tube of claim 2, wherein the ratio Sh/Sv satisfies $Sh/Sv \geq 1$ at an end portion in a long axis of the shadow mask.

5. (Original) The cathode ray tube of claim 1, wherein the ratio Sh/Sv is satisfies a condition of $0.89 \leq Sh/Sv \leq 0.95$ at the central portion of the shadow mask.

6. (Original) The cathode ray tube of claim 1, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv < 1$ on a short axis of the shadow mask.

7. (Currently Amended) The cathode ray tube of claim 1, wherein, by defining the ratio Sh/Sv at the central portion of the shadow mask as A and the ratio Sh/Sv at an end portion of a diagonal axis of the shadow mask as B, a ratio B/A satisfies a condition of $B/A \geq 1.1$.

8. (Original) The cathode ray tube of claim 1, which is used for a monitor.

9. (Original) The cathode ray tube of claim 1, wherein the ratio Sh/Sv satisfies a condition $0.90 \leq Sh/Sv \leq 0.96$ at a region corresponding to

80%~95% of a distance from a center of the shadow mask to an end of a short axis of the shadow mask.

10. (Original) The cathode ray tube of claim 1, wherein the ratio Sh/Sv satisfied a condition $0.95 \leq Sh/Sv \leq 1.03$ at a region corresponding to 80%~95% of a distance from a center of the shadow mask to an end of a long axis of the shadow mask.

11. (Original) The cathode ray tube of claim 1, wherein the ratio Sh/Sv satisfies a condition $0.95 \leq Sh/Sv \leq 1.05$ at a region corresponding to 80%~95% of a distance from a center of the shadow mask to an end of a diagonal axis of the shadow mask.

12. (New) A cathode ray tube comprising:

a panel having an outer surface which is substantially flat and an inner surface which has a radius of curvature; and

a shadow mask having a plurality of apertures through which electron beams pass,

wherein a ratio Sh/Sv of a horizontal dimension Sh of the aperture to a vertical dimension Sv of the aperture satisfies a condition of $0.89 \leq Sh/Sv \leq 0.95$ at a central portion of the shadow mask.

13. (New) The cathode ray tube of claim 12, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv < 1$ at an end portion of a short axis of the shadow mask.

14. (New) The cathode ray tube of claim 13, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv \geq 1$ at an end portion of a diagonal axis of the shadow mask.

15. (New) The cathode ray tube of claim 13, wherein the ratio Sh/Sv satisfies $Sh/Sv \geq 1$ at an end portion in a long axis of the shadow mask.

16. (New) The cathode ray tube of claim 12, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv < 1$ on a short axis of the shadow mask.

17. (New) The cathode ray tube of claim 12, wherein the ratio Sh/Sv satisfied a condition $0.95 \leq Sh/Sv \leq 1.03$ at a region corresponding to

80%~95% of a distance from a center of the shadow mask to an end of a long axis of the shadow mask.

18. (New) The cathode ray tube of claim 12, wherein the ratio Sh/Sv satisfies a condition $0.95 \leq Sh/Sv \leq 1.05$ at a region corresponding to 80%~95% of a distance from a center of the shadow mask to an end of a diagonal axis of the shadow mask.

19. (New) A cathode ray tube comprising:

a panel having an outer surface which is substantially flat and an inner surface which has a radius of curvature; and

a shadow mask having a plurality of apertures through which electron beams pass,

wherein a ratio Sh/Sv of a horizontal dimension Sh of the aperture to a vertical dimension Sv of the aperture satisfies a condition of $Sh/Sv < 1$ at a central portion of the shadow mask, and, by defining the ratio Sh/Sv at the central portion of the shadow mask as A and the ratio Sh/Sv at an end portion of a diagonal axis of the shadow mask as B , a ratio B/A satisfies a condition of $B/A \geq 1.1$.

20. (New) The cathode ray tube of claim 19, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv < 1$ at an end portion of a short axis of the shadow mask.

21. (New) The cathode ray tube of claim 20, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv \geq 1$ at an end portion of a diagonal axis of the shadow mask.

22. (New) The cathode ray tube of claim 20, wherein the ratio Sh/Sv satisfies $Sh/Sv \geq 1$ at an end portion in a long axis of the shadow mask.

23. (New) The cathode ray tube of claim 19, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv < 1$ on a short axis of the shadow mask.

24. (New) The cathode ray tube of claim 19, wherein the ratio Sh/Sv satisfied a condition $0.95 \leq Sh/Sv \leq 1.03$ at a region corresponding to 80%~95% of a distance from a center of the shadow mask to an end of a long axis of the shadow mask.

25. (New) The cathode ray tube of claim 19, wherein the ratio Sh/Sv satisfies a condition $0.95 \leq Sh/Sv \leq 1.05$ at a region corresponding to 80%~95% of a distance from a center of the shadow mask to an end of a diagonal axis of the shadow mask.

26. (New) A cathode ray tube comprising:

a panel having an outer surface which is substantially flat and an inner surface which has a radius of curvature; and

a shadow mask having a plurality of apertures through which electron beams pass,

wherein a ratio Sh/Sv of a horizontal dimension Sh of the aperture to a vertical dimension Sv of the aperture satisfies a condition of $Sh/Sv < 1$ at a central portion of the shadow mask, and the ratio Sh/Sv satisfies a condition $0.90 \leq Sh/Sv \leq 0.96$ at a region corresponding to 80%~95% of a distance from a center of the shadow mask to an end of a short axis of the shadow mask.

27. (New) The cathode ray tube of claim 26, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv < 1$ at an end portion of a short axis of the shadow mask.

28. (New) The cathode ray tube of claim 27, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv \geq 1$ at an end portion of a diagonal axis of the shadow mask.

29. (New) The cathode ray tube of claim 27, wherein the ratio Sh/Sv satisfies $Sh/Sv \geq 1$ at an end portion in a long axis of the shadow mask.

30. (New) The cathode ray tube of claim 26, wherein the ratio Sh/Sv satisfies a condition of $Sh/Sv < 1$ on a short axis of the shadow mask.

31. (New) The cathode ray tube of claim 26, wherein the ratio Sh/Sv satisfied a condition $0.95 \leq Sh/Sv \leq 1.03$ at a region corresponding to 80%~95% of a distance from a center of the shadow mask to an end of a long axis of the shadow mask.

32. (New) The cathode ray tube of claim 26, wherein the ratio Sh/Sv satisfies a condition $0.95 \leq Sh/Sv \leq 1.05$ at a region corresponding to 80%~95% of a distance from a center of the shadow mask to an end of a diagonal axis of the shadow mask.